

Nucleotide Sequence of First Rhesus HER2/Neu

1 ATGGAGCTGG CGGCCTGGTA CCGCTGGGG CTCCCTCCTCG CCCTCTTGCC CCCCAGGAGCT
 61 GCGGGCACCC AAGTGTGCAC CGGCACAGAC ATGAAGCTGC GGCTCCCTGC CAGTCCCGAG
 121 ACCCACCTGG ACATGCTCCG CCACCTCTAC CAGGGCTGCC AGGTGGTGCA GGGTAACCTG
 181 GAACTCACCT ACCTGCCAC CAATGCCAGC CTCTCCTTCC TGCAAGGATAT CCAGGAGGTG
 241 CAGGGCTACG TGCTCATCGC TCACAACCAA GTGAGGCAGG TCCCACTGCA GAGGCTGCAG
 301 ATTGTGCGAG GCACCCAGCT CTTTGAGGAC AACTATGCC C TGGCCGTGCT AGACAATGGA
 361 GACCTGCTGA ACAATACCAC CCCTGTACA GGGGCCTCCC CAGGAGGCCT GCGGGAGCTG
 421 CAGCTTCGAA GCCTCACAGA GATCTTGAAG GGAGGGGTCT TGATCCAGCG GAACCCCCAG
 481 CTCTGCTACC AGGACACGAT TTTGTGGAAG GACATCTTCC ATAAGAACAA CCAGCTGGCT
 541 CTCACACTGA TCGACACCAA CCGCTCTCGG GCCTGCCACC CCTGTTCTCC AGTGTGTAAG
 601 GGCTCCCGCT GCTGGGGAGA GAGTTCTGAG GATTGTAGA GCCTGACGCG CACTGTCTGT
 661 GCCGGTGGCT GTGCCCGCTG CAAGGGGCCA CTGCCCCTG ACTGCTGCCA TGAGCAGTGT
 721 GCTGCCGGCT GCACGGGCCCA CAAGCACTCT GACTGCCTGG CCTGCCTCCA CTTCAACCAC
 781 AGCGGCATCT GTGARCTGCA CTGCCAGCC CTGGTCACCT ACAACACAGA CACCTTGAG
 841 TCCATGCCCA ACCCCGAGGG CCGGTATACA TTCGGCGCCA GCTGTGTGAC TGCCTGTCCC
 901 TACAACCTACC TTTCTACGGA CGTGGGATCC TGCACCCCTCG TCTGCCCTGC GCACAACCAA
 961 GAGGTGACAG CGGAGGACGG AACACAGCGA TGTGAGAAGT GCAGCAAGCC CTGTGCCCGA
 1021 GTGTGCTATG GTCTGGGCAT GGAGCACTTG CGAGAGGTGA GGGCGGTAC CAGTGCCAAT
 1081 ATCCAGGAGT TTGCTGGCTG CAAGAAAGATC TTTGGGAGCT TGGCATTTC T GCCAGAGAGC
 1141 TTTGATGGCG ACCCAGCCTC CAACACCGCC CCGCTTCAGC CGGAGCAGCT CCGAGTGTGTT
 1201 GAGACTCTGG AAGAGATCAC AGGTTACCTA TACATCTCAG CATGGCCAGA CAGCCTGCCT
 1261 GACCTTAGCG TCCTCCAGAA CCTGCAAGTA ATCCGGGAGC GAATTCTGCA CAATGGCGCC
 1321 TACTCACTGA CCCTGCAAGG GCTGGCATC AGCTGGCTGG GGCTGCGCTC GCTGAGGGAA
 1381 CTGGGCAGTG GACTGGCCCT CATCCACCAT AACACCCGCC TCTGCTTTGT GCACACGGTG
 1441 CCCTGGGACC AGCTCTTCG GAACCCGCAC CAAGCCCTGC TCCACACTGC CAACCGGCCA
 1501 GAGGACGAGT GTGTGGCGA GGGCCTGGCC TGCCACCAAGC TGTGCGCCCG AGGGCACTGC
 1561 TGGGGTCCAG GGCCCACCCA GTGTGTCAAC TGCAGCCAGT CCCTTCGGGG CCAGGAGTGC
 1621 GTGGAGGAAT GCCGAGTACT GCAGGGGCTC CCCAGGGAGT ATGTGAATGC CAGACACTGT
 1681 TTGCGTGTGCC ACCCTGAGTG TCAGCCCCAG AATGGCTCAG TGACATGTTT TGGACCGGAG
 1741 GCTGACCAAGT GTGTGGCCTG TGCCCACTAT AAGGACCCCTC CCTTCTGCGT GGCCCGCTGC
 1801 CCCAGCGGTG TGAAACCTGA CCTCTCCTAC ATGCCCATCT GGAAGTTCC AGATGAGGAG
 1861 GGCACGTGCC AGTCTTGCCC CATCAACTGC ACCCACTCCT GTGTGGACCT GGATGACAAG
 1921 GGCTGCCCG CCGAGCAGAG AGCCAGCCCT CTGACGTCCA TCATCTCTGC TGTGGTGGGC
 1981 ATTCTGCTGG TCGTGGTCTT GGGGGTGGTC TTTGGAATCC TCATCAAGCG ACGGCAGCAG
 2041 AAGATCCGGA AGTACACGAT GCGGAGGCTG CTGCAGGAAA CGGAGCTGGT GGAGCCACTG
 2101 ACACCGAGTG GAGCGATGCC CAACCAGCG CAGATGCCA TCTTGAAAGA GACGGAGCTG
 2161 AGGAAGGTGA AGGTGCTTGG ATCTGGAGCT TTTGGCACAG TCTACAAGGG CATCTGGATC
 2221 CCTGATGGGG AGAATGTGAA AATTCCAGTG GCCATCAAAG TGTTGAGGGAA AACACACATCC

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2281 CCCAAAGCCA ACAAAGAAAT CTTAGACGAA GCATATGTGA TGGCTGGTGT GGGCTCCCCA
2341 TATGTCTCCC GCCTCCTGGG CATCTGCCTG ACATCCACGG TGCAGCTGGT GACACAGCTT
2401 ATGCCCTATG GCTGCCTCTT AGACCATGTC CGAGAAAACC GCGGACGCCT GGGCTCCCAG
2461 GACCTGCTGA ACTGGTGTAT GCAGATTGCC AAGGGGATGA GCTACCTGGA GGATGTGCGG
2521 CTCGTACACA GGGACTTGGC TGCTCGGAAC GTGCTGGTCA AGAGTCCCAA CCATGTCAAA
2581 ATTACAGACT TTGGGCTGGC TCGGCTGCTG GACATTGACG AGACAGAGTA CCATGCAGAT
2641 GGGGGCAAGG TGCCCATCAA GTGGATGGCG CTGGAGTCCA TTCTCCGACG GCGGTTCAACC
2701 CACCAGAGTG ATGTGTGGAG TTATGGTGTG ACTGTGTGGG AGCTGATGAC TTTTGGGGCC
2761 AACACCTTACG ATGGGATCCC AGCCCGGGAG ATCCCTGACC TGCTGGAAAA GGGGGAGCGG
2821 CTGCCCCAGC CCCCCATCTG CACCATTGAT GTCTACATGA TCATGGTCAA ATGTTGGATG
2881 ATTGACTCTG AATGTCGGCC GAGATTCCGG GAGTTGGTGT CGGAATTCTC CCGCATGGCC
2941 AGGGACCCCC AGCGCTTTGT GGTCACTCCAG AATGAGGACT TGGGCCCCAGC CAGTCCCTTG
3001 GACAGCACCT TCTACCGCTC ACTGCTGGAG GACGATGACA TGGGGGACCT GGTGGATGCT
3061 GAGGAGTATC TGGTACCCCCA GCAGGGCTTC TTCTGTCCAG ACCCTGCCCC GGGCACTGGG
3121 GGCATGGTCC ACCACAGGCA CCGCAGCTCA TCTACCAGGA GTGGCGGTGG GGACCTGACG
3181 CTAGGGCTGG AGCCCTCTGA AGAGGGAGGCC CCCAGGTCTC CACGGGCACC CTCCGAAGGG
3241 ACTGGCTCTG ATGTATTGTA TGGTGACCTA GGAATGGGGG CAGCCAAGGG GCTGCAAAGC
3301 CTCCCCGCAC ATGACCCCCAG CCCTCTACAG CGGTACAGTG AGGACCCCCAC GGTACCCCTG
3361 CCTTCTGAGA CTGACGGCTA CGTTGCCCCC CTGACCTGCA GTCCCCAGCC CGAATATGTG
3421 AACCAAGCCAG ATGTTCGGCC ACAGCCCCCT TCGCCCCAAG AGGGCCCTCT GTCTCCTGCC
3481 CGACCTACTG GTGCCACTCT GGAAAGGGCCC AAGACTCTCT CCCCAGGGAA GAATGGGGTT
3541 GTCAAAGACG TTTTGCCCTT TGGGGGTGCT GTGGAGAACCC CCGAGTACTT GGCACCCCCGG
3601 GGAGGGAGCTG CCCCTCAGCC CCACCTTCCT CCTGCCTTCA GCCCAGCCTT CGACAAACCTC
3661 TATTACTGGG ACCAGGACCC ATCAGAGCGG GGGGCTCCAC CTAGCACCTT CAAAGGGACA
3721 CCTACGGCAG AGAACCCAGA GTACCTGGGT CTGGACGTGC CAGTGTGA (SEQ ID N0:1)

FIG. 1B

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Predicted Amino Acid Sequence of First Rhesus
Her2/Neu Protein (SEQ ID NO:2)

1 MELAAWYRWG LLLALLPPGA AGTQVCTGTD MKLRLPASPE THLDMLRHLY QGCQVVQGNL
61 ELYLPTNAS LSFLQDIQEV QGYVLIAHNQ VRQVPLQRLR IVRGTQLFED NYALAVLDNG
121 DLLNNNTTPVT GASPGGLREL QLRLSLTEILK GGVLIQRNPQ LCYQDTILWK DIFHKNNQLA
181 LTLIDTNRSR ACHPCSPVCK GSRCWGESSE DCQSLTRTVC AGGCARCKGP LPTDCCHEQC
241 AAGCTGPKHS DCLACLHFNH SGICELHCPA LVTYNTDTFE SMPNPEGRYT FGASCVTACP
301 YNYLSTDVGS CTLVCPLHNQ EVTAEDGTQR CEKCSKPCAR VCYGLGMEHL REVRAVTSAN
361 IQEFAGCKKI FGSLAFLPES FDGDPASNTA PLQPEQLRVF ETLEEITGYL YISAWPDSLP
421 DLSVLQLNLQV IRGRILHNQ YSLTLQGLGI SWLGLRSLRE LGSGLALIHH NTRLCFVHTV
481 PWDQLFRNPH QALLHTANRP EDECVGEGLA CHQLCARGHC WGPGPQTQCVN CSQFLRGQEC
541 VEECRVLQGL PREYVNARHC LPCHPECQPQ NGSVTCFGPE ADQCVACAHY KDPPFCVARC
601 PSGVKPDLSY MPIWKFDEE GTCQSCPINC THSCVLDLDDK GCPAEQRASP LTSIISAVVG
661 ILLVVVLGVV FGILIKRRQQ KIRKYTMRL LQETELVEPL TPSGAMPNQA QMRILKETEL
721 RKVVLGSGA FGTVYKGIWI PDGENVKIPV AIKVLRENTS PKANKEILDE AYVMAGVGSP
781 YVSRLLGICL TSTVQLVTQL MPYGCLLDHV RENRGRLGSQ DLLNWCMQIA KGMSYLEDVR
841 LVHRDLAARN VLVKSPNHVK ITDFGLARLL DIDETEYHAD GGKVPIKWMA LESILRRRFT
901 HQSDVWSYGV TVWELMTFGA KPYDGIPARE IPDLLEKGER LPQPPPICTID VYMIMVKCWM
961 IDSECRPRFR ELVSEFSRMA RDPQRFVVIQ NEDLGPASPL DSTFYRSLLE DDDMGDLVDA
1021 EEYLVPPQQGF FCPDPAPGTG GMVHHHRHRSS STRSGGGDLT LGLEPSEEEA PRSPRAPSEG
1081 TGSDVFDGDL GMGAAKGLQS LPAHDPSPLQ RYSEDPTVPL PSETDGYVAP LTCSPQPEYV
1141 NQPDVRPQPP SPQEGPLSPA RPTGATLERP KTLSPGKNGV VKDVFAFGGA VENPEYLAPR
1201 GGAAPQPHLP PAFSPAFDNL YYWDQDPSER GAPPSTFKGT PTAENPEYLG LDVPV*

FIG.2

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Oligonucleotide Primers Spanning Rhesus Her2/neu Gene

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RT-PCR Primers and Clones Used to Construct Full-Length rHER2/neu Clone.

Rxn #	Forward	Oligonucleotide Primer	Clone
1	AGCCATGGCGCGACGCCA (SEQ ID NO:3)	Reverse AGGGCTGGCAGTCAGCTCACAGAT (SEQ ID NO:4)	#1_BS_(-30)-812.A1
2	CTGGGGAGCTGCAGCTCGAAG (SEQ ID NO:5)	CCAAAGATCTCTTCAGCC (SEQ ID NO:6)	#1_CRL409_1115.2
3	ATCTGTGAGCTGCACTGCCAGCCT (SEQ ID NO:7)	GAGGCCAGCCCCAGCCAGC (SEQ ID NO:8)	#1_CRL787_1370.10
4	GGCTGCAAGAAGATCTTTGG (SEQ ID NO:9)	TGGGTGCAAGTTGATGGGCCA (SEQ ID NO:10)	#1_BS_1096_1895.11
5	CCAGTTAAACATTAAATGCCGCCACCATGGAGCTGC GGCCCT (SEQ ID NO:11)	TGGCTGCAAGTTGATGGGCCA (SEQ ID NO:10)	#1_CRL1-1895.7(-)
6	TGCTGGGGTCCAGGGCCCCACCCAGTG (SEQ ID NO:12)	TCAGGGATCTCCGGCTGGGAT (SEQ ID NO:13)	Not Cloned (1558-2798)
7	GTGGAGGAATGCCGAGGTACTGCAG (SEQ ID NO:14)	TGTGTTTCCCTCAACACAGGGGATGGCCACTGGAAATTTC (SEQ ID NO:15)	#1_CRL1621-2277.2
8	AAAATTCCAGTCCCCATGCCCTGTTGGGGAAAAACAC A (SEQ ID NO:16)	TCAGGGATCTCCGGGGTGGGAT (SEQ ID NO:13)	#1_CRL2239-2798.4
9	CTGGGGATCTGCCCTGACATCCAC (SEQ ID NO:17)	GCTTTCAGGGACACTCTCTCAA (SEQ ID NO:18)	#1_CRL2356-4166.2
10	GTGGAGGAATGCCGAGTACTGCAG (SEQ ID NO:14)	GCGGTGACCTTACATGGACAGTCCAGACCCCA (SEQ ID NO:19)	#1_CRL1621-3768.8(+)
10	GTGGAGGAATGCCGAGTACTGCAG (SEQ ID NO:14)	GCGGTGACCTTACATGGACAGTCCAGACCCCA (SEQ ID NO:19)	#1_CRL1621-3768.12(+)

FIG. 4

Nucleotide Sequence of Second Rhesus HER2/Neu

1 ATGGAGCTGG CGGCCTGGTA CCGCTGGGG CTCCTCCTCG CCCTCTTGCC CCCC GGAGCT
 61 GCGGGCACCC AAGTGTGCAC CGGCACAGAC ATGAAGCTGC GGCTCCCTGC CAGTCCCGAG
 121 ACCCACCTGG ACATGCTCCG CCACCTCTAC CAGGGCTGCC AGGTGGTGCA GGGTAACCTG
 181 GAACTCACCT ACCTGCCAC CAATGCCAGC CTCTCCTTCC TGCAAGGATAT CCAGGAGGTG
 241 CAGGGCTACG TGCTCATCGC TCACAACCAA GTGAGGCAGG TCCC ACTGCA GAGGCTGCC
 301 ATTGTGCGAG GCACCCAGCT CTTTGAGGAC AACTATGCC C TGGCCGTGCT AGACAATGGA
 361 GACCCGCTGA ACAATACCAC CCCTGTCA CA GGGGCCTCCC CAGGAGGCCT GCGGGAGCTG
 421 CAGCTTCGAA GCCTCACAGA GATCTTGAAA GGAGGGGTCT TGATCCAGCG GAACCCCCAG
 481 CTCTGCTACC AGGACACGAT TTTGTGGAAG GACATCTTCC ATAAGAACAA CCAGCTGGCT
 541 CTCACACTGA TCGACACCAA CCGCTCTCGG GCCTGCCACC CCTGTTCTCC AGTGTGTAAG
 601 GGCTCCCGCT GCTGGGGAGA GAGTTCTGAG GATTGTCA GA GCCTGACGCG CACTGTCTGT
 661 GCCGGTGGCT GTGCCGCTG CAAGGGGCCA CTGCCACTG ACTGCTGCCA TGAGCAGTGT
 721 GCTGCCGGCT GCACGGGCC CAAGCACTCT GACTGCCCTGG CCTGCCCTCA CTTCAACCAC
 781 AGCGGCATCT GTGACTGCA CTGCCAGCC CTGGTCACCT ACAACACAGA CACCTTGAG
 841 TCCATGCCCA ACCCCGAGGG CCGGTATA CA TTCGGCGCCA GCTGTGTGAC TGCCTGTCCC
 901 TACAAC TACC TTTCTACGGA CGTGGGATCC TGCA CCCTCG TCTGCCCTGC GCACAACCAA
 961 GAGGTGACAG CGGAGGACGG AACACAGCGA TGTGAGAAGT GCAGCAAGCC CTGTGCCCGA
 1021 GTGTGCTATG GTCTGGGCAT GGAGCACTTG CGAGAGGTGA GGGCGGTAC CAGTCCAAT
 1081 ATCCAGGAGT TTGCTGGCTG CAAGAAGATC TTTGGGAGY TGGCATTCT GCCAGAGAGC
 1141 TTTGATGGCG ACCCAGCCTC CAACACCGCC CCGCTTCAGC CGGAGCAGCT CCGAGTGT
 1201 GAGACTCTGG AAGAGATCAC AGGTTACCTA TACATCTCAG CATGGCCAGA CAGCCTGCCT
 1261 GACCTTAGCG TCCTCCAGAA CCTGCAAGTA ATCCGGGAC GAATTCTGCA CAATGGCGCC
 1321 TACTCACTGA CCCTGCAAGG GCTGGCCTC AGCTGGCTGG GGCTGCGCTC GCTGAGGGAA
 1381 CTGGGCAGTG GACTGCCCT CATCCACCAT AACACCCGCC TCTGCTTTGT GCACACGGTG
 1441 CCCTGGGACC AGCTCTCCG GAACCCGCAC CAAGCCCTGC TCCACACTGC CAACCGGCC
 1501 GAGGACGAGT GTGTGGCGA GGGCCTGGCC TGCCACCAAGC TGTGCGCCR AGGGCACTGC
 1561 TGGGGTCCAG GGCCCACCCCA GTGTGTCAAC TGCA GGCAGTGCAGT TCCCTGGGG CCAGGAGTGC
 1621 GTGGAGGAAT GCCGAGTACT GCAGGGGCTC CCCAGGGAGT ATGTGAATGC CAGACACTGT
 1681 TTGCCGTGCC ACCCTGAGTG TCAGCCCCAG AATGGCTCAG TGACATGTT TGGACCGGAG
 1741 GCTGACCAAGT GTGTGGCCTG TGCCCACTAT AAGGACCCCTC CCTTCTGCGT GGCCCGCTGC
 1801 CCCAGCGGTG TGAAACCTGA CCTCTCTAC ATGCCCATCT GGAAGTTCC AGATGAGGAG
 1861 GGCACGTGCC AGCTTGCC CATCAACTGC ACCCACTCCT GTGTGGACCT GGATGACAAG
 1921 GGCTGCCCG CCGAGCAGR AGCCAGCCCT CTGACGTCCA TCA TCTCTGC TGTGGTGGGC
 1981 ATTCTGCTGG TCGTGGTCTT GGGGGTGGTC TTTGGAATCC TCA TCAAGCG ACGGCAGCAG
 2041 AAGATCCGGA AGTACACGAT GCGGAGGCTG CTGCAGGAAA CGGAGCTGGT GGAGCCACTG
 2101 ACACCGAGTG GAGCGATGCC CAACCAGGCG CAGATGCCGA TCCTGAAAGA GACGGAGCTG
 2161 AGGAAGGTGA AGGTGCTTGG ATCTGGAGCT TTTGGCACAG TCTACAAGGG CATCTGGATC
 2221 CCTGATGGGG AGAATGTGAA AATTCCAGTG GCCATCAAAG TGTGAGGGA AAACACATCC

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2281 CCCAAAGCCA ACAAAGAAAT CTTAGACGAA GCATATGTGA TGGCTGGTGT GGGCTCCCCA
2341 TATGTCTCCC GCCTCCTGGG CATCTGCCCTG ACATCCACGG TGCAGCTGGT GACACAGCTT
2401 ATGCCCTATG GCTGCCCTTT AGACCATGTC CGAGAAAACC GC GGACGCCT GGGCTCCCAG
2461 GACCTGCTGA ACTGGTGTAT GCAGATTGCC AAGGGGATGA GCTACCTGGA GGATGTGCGG
2522 CTCGTACACA GGGACTTGGC TGCTCGGAAC GTGCTGGTCA AGAGTCCCAA CCATGTCAAA
2581 ATTACAGACT TTGGGCTGGC TCGGCTGCTG GACATTGACG AGACAGAGTA CCATGCAGAT
2641 GGGGGCAAGG TGCCCATCAA GTGGATGGCG CTGGAGTCCA TTCTCCGACG GCGGTTCA
2701 CACCAGAGTG ATGTGTGGAG TTATGGTGTG ACTGTGTGGG AGCTGATGAC TTTTGGGGCC
2761 AACACCTTACG ATGGGATCCC AGCCCAGGGAG ATCCCTGACC TGCTGGAAAAA GGGGGAGCGG
2821 CTGCCCTCAGC CCCCCATCTG CACCATTGAT GTCTACATGA TCATGGTCAA ATGTTGGATG
2881 ATTGACTCTG AATGTCGGCC GAGATCCGG GAGTTGGTGT CGGAATTCTC CCGCATGGCC
2941 AGGGACCCCC AGCGCTTTGT GGTCATCCAG AATGAGGACT TGGGCCAGC CAGTCCCTTG
3001 GACAGCACCT TCTACCGCTC ACTGCTGGAG GACGATGACA TGGGGGACCT GGTGGATGCT
3061 GAGGAGTATC TGGTACCCCA GCAGGGCTTC TTCTGTCCAG ACCCTGCCCG GGGCACTGGG
3121 GGCATGGTCC ACCACAGGCA CCGCAGCTCA TCTACCAGGA GTGGCGGTGG GGACCTGACG
3181 CTAGGGCTGG AGCCCTCTGA AGAGGAGGCC CCCAGGTCTC CACRGGCACC CTCCGAAGGG
3241 ACTGGCTCTG ATGTATTTGA TGGTGACCTA GGAATGGGGG CAGCCAAGGG GCTGCAAAGC
3301 CTCCCCGCAC ATGACCCCCAG CCCTCTACAG CGGTACAGTG AGGACCCCCAC GGTACCCCTG
3361 CCTTCTGAGA CTGACGGCTA CGTTGCCCGG CTGACCTGCA GYCCCCAGCC CGAATATGTG
3421 AACCAAGCCAG ATGTTGGGCC ACAGCCCCCT TCGCCCCAAG AGGGCCCTCT GTCTCCTGCC
3481 CGACCTACTG GTGCCACTCT GGAAAGGCC AAGACTCTCT CCCCAGGGAA GAATGGGGTT
3541 GTCAAAGACG TTTTGCCTT TGGGGGTGCT GTGGAGAACCC CCGAGTACTT GGCACCCCCGG
3601 GGAGGGAGCTG CCCCTCAGCC CCACCTTCCT CCTGCCTTCA GCCCAGCCTT CGACAACCTC
3661 TATTACTGGG ACCAGGACCC ATCAGAGCGG GGGGCTCCAC CTAGCACCTT CAAAGGGACA
3721 CCTACGGCAG AGAACCCAGA GTACCTGGGT CTGGACGTGC CAGTGTGA (SEQ ID NO:40)

FIG.5B

Predicted Amino Acid Sequence of Second Rhesus Her2/Neu Protein

1 MELAAWYRWG LLLALLPPGA AGTQVCTGTD MKLRLPASPE THLDMLRHLY QGCQVVQGNL
61 ELYLPTNAS LSFLQDIQEV QGYVLIAHNQ VRQVPLQRLR IVRGSQLFED NYALAVLDNG
121 DPLNNNTTPVT GASPGGLREL QLRLSTEILK GGVLIQRNPQ LCYQDTILWK DIFHKNNQLA
181 LTLIDTNRSR ACHPCSPVCK GSRCWGESSE DCQSLTRTVC AGGCARCKGP LPTDCCHEQC
241 AAGCTGPKHS DCLACLHFNH SGICELHCPA LVTYNTDTFE SMPNPEGRYT FGASCVTACP
301 YNYLSTDVGS CTLVCPLHNQ EVTAEDGTQR CEKCSKPCAR VCYGLGMEL REVRAVTSAN
361 IQEFAGCKKI FGSLAFLPES FDGDPASNTA PLQPEQLRWF ETLEEITGYL YISAWPDSLP
421 DLSVLQNLQV IRGRILHNGA YSLTLQGLGI SWLGLRSLRE LGSGLALIHH NTRLCFVHTV
481 PWDQLFRNPH QALLHTANRP EDECVGEGLA CHQLCAXGHC WGPGPQTQCVN CSQFLRGQEC
541 VEECRVLQGL PREYVNARHC LPCHPECQPQ NGSVTCFGPE ADQCVACAHY KDPPFCVARC
601 PSGVKPDLSY MPIWKFPDDE GTCQPCPINC THSCVDLDDK GCPAEQXASP LTSIISAVVG
661 ILLVVVLGVV FGILIKRRQQ KIRKYTMRRR LQETELVEPL TPSGAMPNQA QMRILKETEL
721 RKVKVLGSGA FGTVYKGWI PDGENVKIPV AIKVLRENTS PKANKEILDE AYVMAGVGSP
781 YVSRLLGICL TSTVQLVTQL MPYGCLLDHV RENRGRLGSQ DLLNWCMQIA KGMSYLEDVR
841 LVHRDLAARN VLVKSPNHWK ITDFGLARLL DIDETEYHAD GGKVPIKWMA LESILRRRFT
901 HQSDVWSYGV TVWELMTFGA KPYDGIPARE IPDLLEKGER LPQPPICHTD VYMIMVKCWM
961 IDSECRPRFR ELVSEFSRMA RDPQRFFVIQ NEDLGPASPL DSTFYRSLLE DDDMGDLVDA
1021 EYLVPPQQGF FCPDPAPGTG GMVHHRHRSS STRSGGGDLT LGLEPSEEEA PRSPXAPSEG
1081 TGSDVFDGDL GMGAAGLQS LPAHDPSPLQ RYSEDPTVPL PSETDGYVAP LTCSPQPEYV
1141 NQPDVRPQPP SPQEGPLSPA RPTGATLERP KTLSPGKNGV VKDVFAGGA VENPEYLAPR
1201 GGAAPQPHLP PAFSPAFDNL YYWDQDPSER GAPPSTFKGT PTAENPEYLG LDVPV*
(SEQ ID NO:41)

FIG. 6

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MUTATIONS IN RHESUS HER2/neu NUCLEOTIDE SEQUENCE

POSITION	RhHER2#1	RhHER2#2
365	2 CLONES	C T G L
795	3 CLONES	G A G E
	2 CLONES	G A A E
1119	2 CLONES	A G C S
1550	3 CLONES	C G A R
1873	6 CLONES	T C T S
1940	2 CLONES	A G A R
3224	4 CLONES	C G G R
3402	2 CLONES	A G T S
		G A G E
		G A A E
		A G T S
		C T A A Q
		C T A A R
		C C T P
		A A A K
		A G A R
		C G G R
		C T A G Q
		A G C S
		A G T S

FIG.7